

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/095472 A1

- (51) International Patent Classification⁷: C08F 110/06, 4/651, C07F 3/02
- (21) International Application Number: PCT/EP2005/002371
- (22) International Filing Date: 3 March 2005 (03.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
04101281.6 29 March 2004 (29.03.2004) EP
60/557,813 30 March 2004 (30.03.2004) US
- (71) Applicant (for all designated States except US): BASELL POLIOLEFINE ITALIA S.P.A. [IT/IT]; Via Pergolesi, 25, I-20124 Milano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GULEVICH, Yuri [RU/IT]; Corso Porta Mare, 8, I-44100 Ferrara (IT). CAMURATI, Isabella [IT/IT]; Vicolo Mozzo della Vittoria, 2, I-44100 Ferrara (IT). CRISTOFORI, Antonio [IT/IT]; Corso Berlinguer, 9, I-45030 S.M. Maddalena, Occhiobello (IT). DALL'OCCO, Tiziano [IT/IT]; Via E. Farolfi, 3, I-44100 Ferrara (IT). MORINI, Giampiero [IT/IT]; Via Giotto, 36, I-35100 Padova (IT). PIEMONTESE, Fabrizio [IT/IT]; Vicolo Mozzo della Vittoria, 2, I-44100 Ferrara (IT). VITALE, Gianni [IT/IT]; Via Fulvio Testi, 22, I-44100 Ferrara (IT).
- (74) Agent: GIBERTI, Stefano; Basell Poliolefine Italia S.p.A., Intellectual Property, P. le G. Donegani, 12, I-44100 Ferrara (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:
— of inventorship (Rule 4.17(iv)) for US only
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MAGNESIUM CHLORIDE-BASED ADDUCTS AND CATALYST COMPONENTS OBTAINED THEREFROM

(57) Abstract: Lewis base adducts comprising $\text{MgCl}_n(\text{OR})_{2-n}$, and an aprotic Lewis base that are in molar ratios to each other defined by the formula: $\text{MgCl}_n(\text{OR})_{2-n}\text{LB}_p$ in which n is from 0.1 to 1.9, p is higher than 0.4, and R is a C1-C15 hydrocarbon group. The adducts of the present invention are particularly useful as precursors of Ziegler-Natta catalyst components for the polymerization of olefins.

WO 2005/095472 A1